**PLC APPLICATIONS**

**WORK SHEET FOR MODULE 3 & 4**

1. What is ON-delay timer?

The output of this timer is not switched on until a configured delay time has expired.

1. What is OFF-delay timer?

The output of this timer stays high until a defined time has expired.

1. What are the uses of Timer?

* Flashing light control and traffic light signals
* Motor soft-start delay control
* Conveyor belt sequence delay: especially when multiple conveyor belts are arranged to transport material
* Subroutines that take place consecutively for specific time.

1. What is On – Off delay timer?

The ON/OFF delay timer can be thought as a combination of two timers ON delay timer and OFF delay timer

basically it is used to set an output upon expiration of an ON time and then reset it again upon expiration of an OFF time.

1. A pulse wave or **pulse train** is a [waveform](http://en.wikipedia.org/wiki/Waveform) that has a rectangular shape.
2. ON time is not equal to OFF time of the wave in Asynchronous pulse generators
3. Asynchronous pulse generator programming block is used to generate pulse train.
4. Asynchronous pulse generator has two inputs ( En & INV). **En** input is used to enable the pulse train at the output. **INV** input can be used to invert the output signal.
5. Weekly timers use real time clock routines.
6. The applications of weekly timer are school bells and periodic lubrication process for machines
7. Weekly timer can be used to switch ON and switch OFF an output at certain times during the week days.
8. Weekly timer is equipped with three options (cams).